

**CYP26A1 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2754d****Specification**

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**CYP26A1 Antibody (C-term) - Product Information**

Application	FC, IHC-P, WB,E
Primary Accession	<a href="#">O43174</a>
Other Accession	<a href="#">Q5VXI0</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	56199
Antigen Region	467-497

**CYP26A1 Antibody (C-term) - Additional Information****Gene ID** 1592**Other Names**

Cytochrome P450 26A1, 114--, Cytochrome P450 retinoic acid-inactivating 1, Cytochrome P450RAI, hP450RAI, Retinoic acid 4-hydroxylase, Retinoic acid-metabolizing cytochrome, CYP26A1, CYP26, P450RAI1

**Target/Specificity**

This CYP26A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 467-497 amino acids from the C-terminal region of human CYP26A1.

**Dilution**

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CYP26A1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CYP26A1 Antibody (C-term) - Protein Information**

**Name** CYP26A1 {ECO:0000303|PubMed:26937021, ECO:0000312|HGNC:HGNC:2603}

**Function** A cytochrome P450 monooxygenase involved in the metabolism of retinoates (RAs), the active metabolites of vitamin A, and critical signaling molecules in animals (PubMed:[22020119](#), PubMed:[9228017](#), PubMed:[9716180](#)). RAs exist as at least four different isomers: all- trans-RA (atRA), 9-cis-RA, 13-cis-RA, and 9,13-dicis-RA, where atRA is considered to be the biologically active isomer, although 9-cis-RA and 13-cis-RA also have activity (Probable). Catalyzes the hydroxylation of atRA primarily at C-4 and C-18, thereby contributing to the regulation of atRA homeostasis and signaling (PubMed:[22020119](#), PubMed:[9228017](#), PubMed:[9716180](#)). Hydroxylation of atRA limits its biological activity and initiates a degradative process leading to its eventual elimination (Probable). Involved in the conversion of atRA to all-trans-4-oxo-RA. Able to metabolize other RAs such as 9-cis, 13-cis and 9,13-di-cis RA (By similarity) (PubMed:[9228017](#)). Can oxidize all-trans-13,14- dihydroretinoate (DRA) to metabolites which could include all-trans-4-oxo-DRA, all-trans-4-hydroxy-DRA, all-trans-5,8-epoxy-DRA, and all- trans-18-hydroxy-DRA (By similarity). May play a role in the oxidative metabolism of xenobiotics such as tazarotenic acid (PubMed:[26937021](#)).

#### **Cellular Location**

Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

#### **Tissue Location**

Expressed in most fetal and adult tissues with highest levels in adult liver, heart, pituitary gland, adrenal gland, placenta and regions of the brain (PubMed:9826557). Expressed at high levels in lung, pancreas, skin and uterus (at protein level) (PubMed:22020119). Lower expression level is detected in spleen, kidney, intestine and adipose tissue (at protein level) (PubMed:22020119).

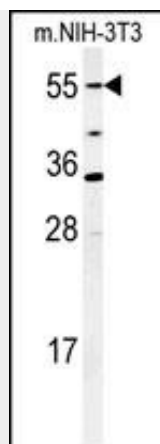
### **CYP26A1 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

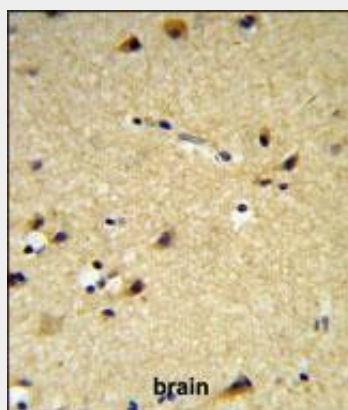
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **CYP26A1 Antibody (C-term) - Images**

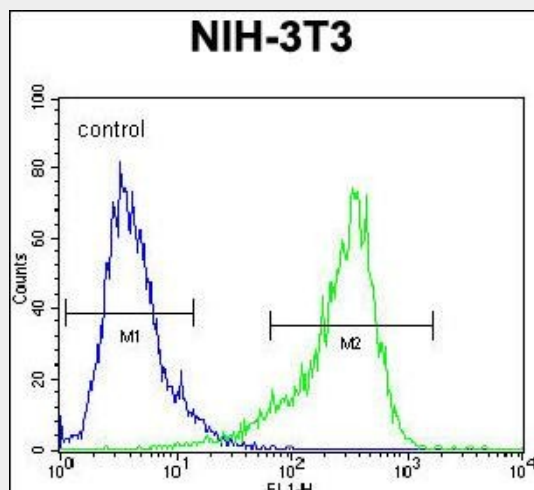




Western blot analysis of CYP26A1 Antibody (C-term) (Cat. #AP2754d) in mouse NIH-3T3 cell lysates (35ug/lane).CYP26A1 (arrow) was detected using the purified Pab.



CYP26A1 Antibody (C-term)(Cat. #AP2754d) IHC analysis in formalin fixed and paraffin embedded brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CYP26A1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



CYP26A1 Antibody (C-term) (Cat. #AP2754d) flow cytometric analysis of NIH-3T3 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### CYP26A1 Antibody (C-term) - Background

CYP26A1 is a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This endoplasmic reticulum protein acts on retinoids, including all-trans-retinoic acid (RA), with both 4-hydroxylation and 18-hydroxylation activities. This enzyme regulates the cellular level of retinoic acid which is involved in regulation of gene expression in both embryonic and adult tissues.

#### **CYP26A1 Antibody (C-term) - References**

Quere,R., Blood 109 (10), 4450-4460 (2007) Lee,S.J., Pharmacogenet. Genomics 17 (3), 169-180 (2007) Heise,R., J. Invest. Dermatol. 126 (11), 2473-2480 (2006)